

# **DBMS LAB ASSIGNMENT 2**

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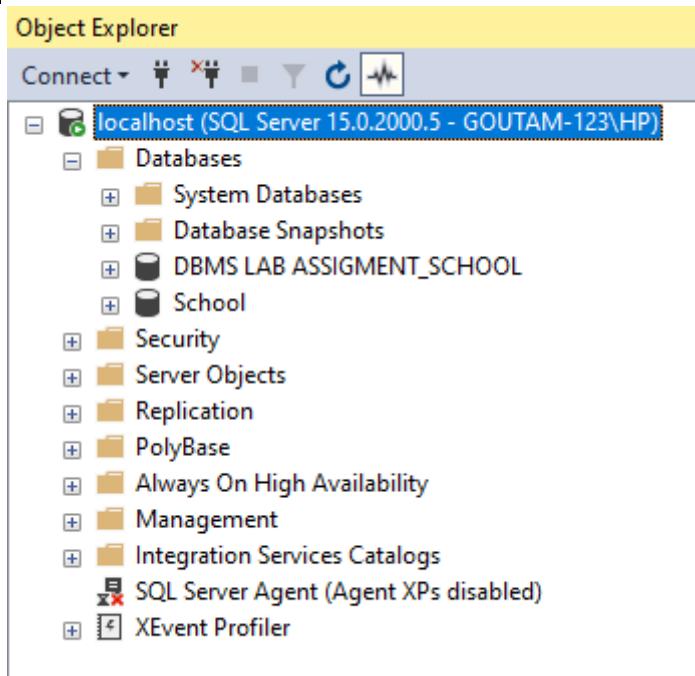
19BCS085

1) show how to create and drop database

**Query to create database:**

```
CREATE DATABASE School
```

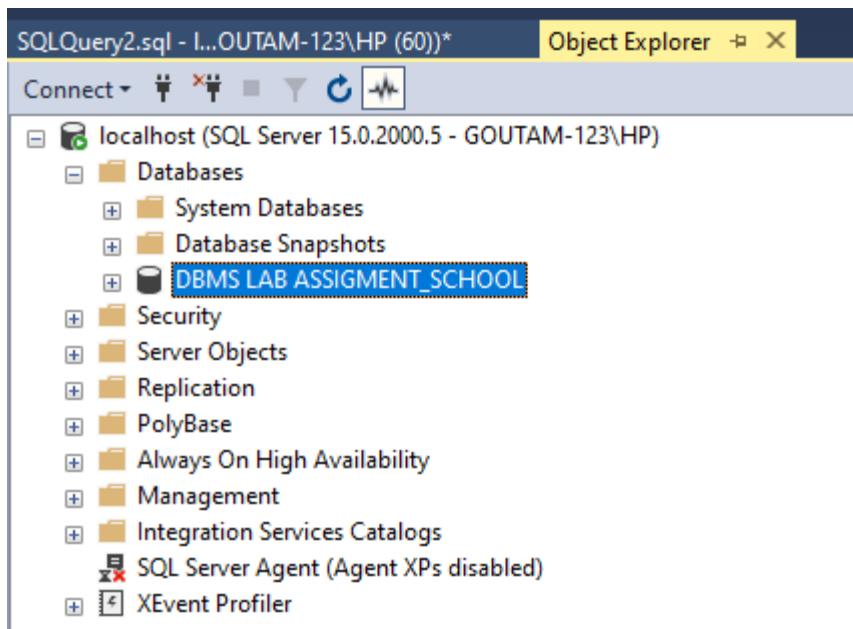
**Output:**



**Query to drop database:**

```
DROP DATABASE School;
```

**Output: Database deleted**



2) Show all the databases that are in the system

Query:

```
USE [DBMS LAB ASSIGNMENT SCHOOL];
GO
SELECT Name AS DatabaseName, database_id AS
ID
FROM sys.databases ;
GO
```

Output:

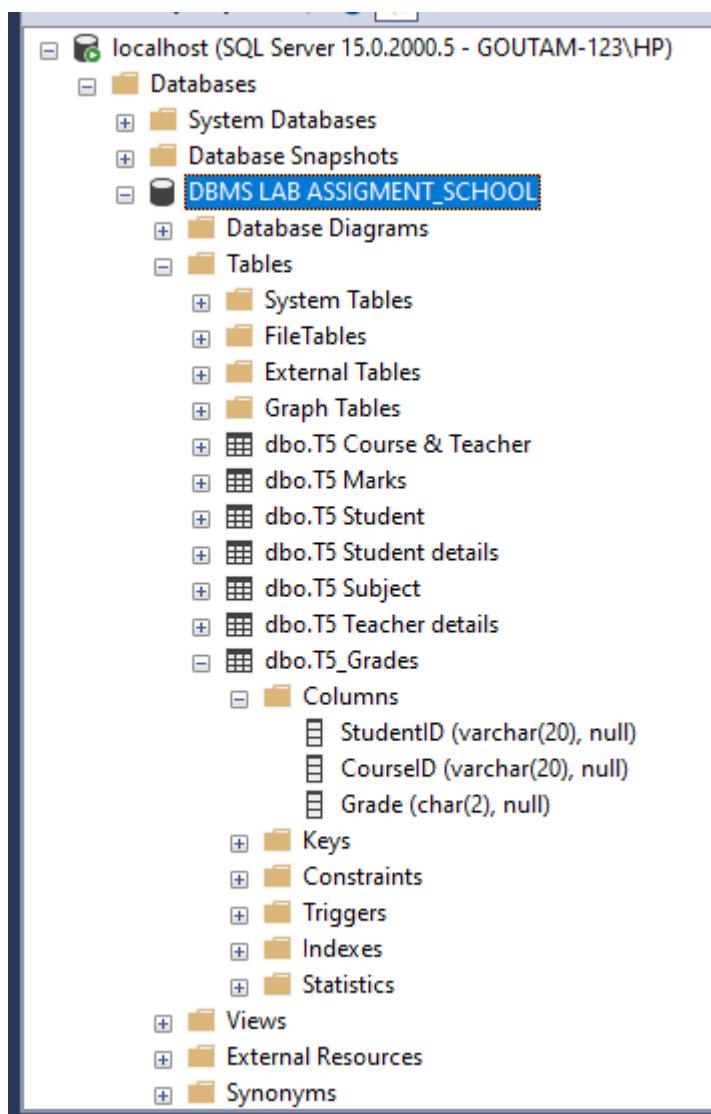
	DatabaseName	ID
1	master	1
2	tempdb	2
3	model	3
4	msdb	4
5	DBMS LAB ASSIGNMENT SCHOOL	5

3) Create a table for your database

Query:

```
USE [DBMS LAB ASSIGMENT SCHOOL]
CREATE TABLE T5_Grades(
StudentID varchar(20),
CourseID varchar(20),
Grade char(2),
)
```

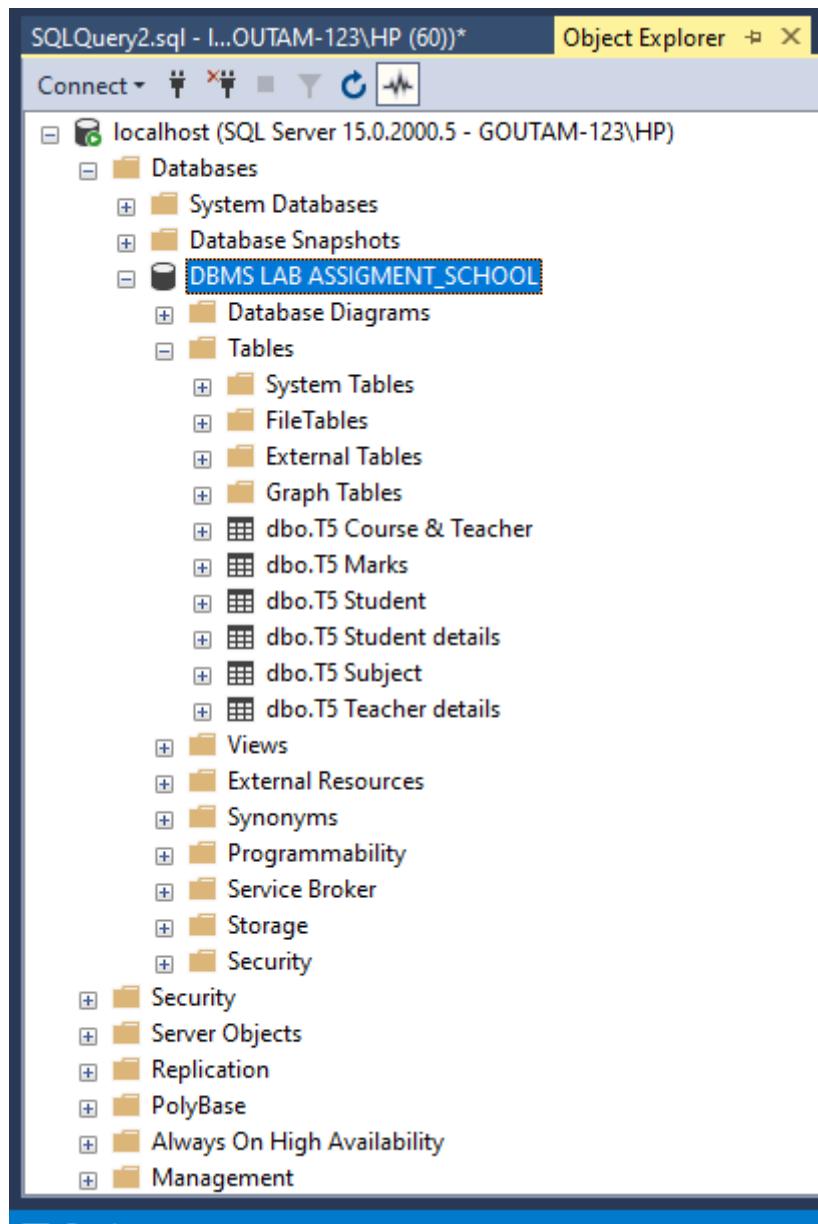
## Output:



## 4)Query to drop the table:

```
DROP TABLE T5_Grades;
```

## Output:



5) Show how to check the schema of the tables

&

6) Show all the tables from the database

Query:

```
SELECT * FROM INFORMATION_SCHEMA.TABLES
```

Output:

	TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
1	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Student	BASE TABLE
2	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Student details	BASE TABLE
3	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Subject	BASE TABLE
4	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Course & Teacher	BASE TABLE
5	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Teacher details	BASE TABLE
6	DBMS LAB ASSIGNMENT SCHOOL	dbo	T5 Marks	BASE TABLE
7	DBMS LAB ASSIGNMENT SCHOOL	dbo	sysdiagrams	BASE TABLE

## 7) Create table using select statement

Query:

```
SELECT * INTO T5_Grades FROM [T5 Marks];
```

Output:

8)create a table which has derived attribute

Query:

```
CREATE TABLE T5_studentInfo(
StudentID varchar(20),
[First Name] varchar(20),
[Last Name] varchar(20),
DOB date,
Age AS (DATEDIFF(YEAR, DOB, GETDATE())))
)
```

Output:

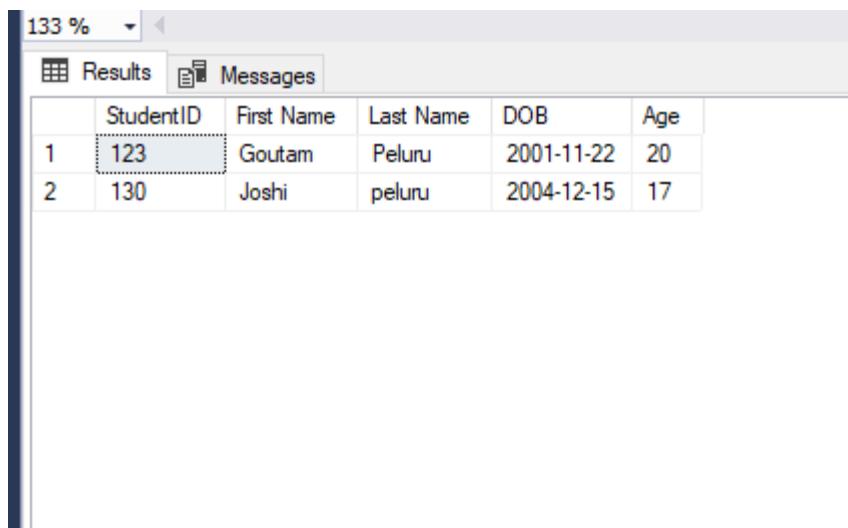
The screenshot shows the SQL Server Object Explorer interface. The left pane displays a tree structure of database objects. At the top level, there is a connection node for 'localhost (SQL Server 15.0.2000.5 - GOUTAM-123\HP)'. Under this, the 'Databases' node is expanded, showing 'System Databases', 'Database Snapshots', and the 'DBMS LAB ASSIGNMENT SCHOOL' database. This database node is also expanded, showing 'Tables', 'Database Diagrams', and other system objects. The 'Tables' node is further expanded to show several tables: 'dbo.T5 Course & Teacher', 'dbo.T5 Marks', 'dbo.T5 Student', 'dbo.T5 Student details', 'dbo.T5 Subject', 'dbo.T5 Teacher details', 'dbo.T5\_Grades', and 'dbo.T5\_studentInfo'. The 'dbo.T5\_studentInfo' table node is selected, as indicated by a blue border around its 'Columns' folder. The 'Columns' folder is expanded, listing the five columns defined in the CREATE TABLE statement: 'StudentID (varchar(20), null)', 'First Name (varchar(20), null)', 'Last Name (varchar(20), null)', 'DOB (date, null)', and 'Age (Computed, int, null)'. Other collapsed nodes under the table include 'Keys', 'Constraints', 'Triggers', 'Indexes', and 'Statistics'.

## Query to insert the values:

### Query:

```
INSERT INTO T5_studentInfo VALUES(123, 'Goutam', 'Peluru', '2001-11-22')
INSERT INTO T5_studentInfo VALUES(130, 'Joshi', 'peluru', '2004-12-15')
SELECT * FROM T5_studentInfo
```

### Output:



The screenshot shows a Windows-style application window with a title bar containing '133 %'. Below the title bar are two tabs: 'Results' (selected) and 'Messages'. The main area displays a table with the following data:

	StudentID	First Name	Last Name	DOB	Age
1	123	Goutam	Peluru	2001-11-22	20
2	130	Joshi	peluru	2004-12-15	17